Publications, Presentations and Posters

2020

2019


2018


HAEMODYNAMIC ASSESSMENT AND GESTATIONAL DIABETES MELLITUS: COULD WE IMPROVE THE IDENTIFICATION OF THE OBSTETRIC RISK?. To be published in ISUOG Journal after the meeting.

MONOCHORIONIC TWIN PREGNANCY AND ITS PHYSIOLOGICAL CARDIAC DYSFUNCTION DURING 3RD TRIMESTER. To be published in ISPUG after the ICMH.

Valensise H, Tiralongo GM, Lo Presti D, Farsetti, D, Pisani I, Gagliardi G, Novelli GP, Vasapollo B. NITRIC OXIDE DONORS IN WOMEN AFFECTED BY FETAL GROWTH RESTRICTION: THE IMPORTANCE OF CARDIAC DYSFUNCTION IN NON-RESPONDER PATIENTS. To be published in ISUOG after the ICMH.

Lo Presti D, Tiralongo GM, Farsetti, D, Pisani I, Gagliardi G, Novelli GP, Vasapollo B, Valensise H. ROLE OF MATERNAL HAEMODYNAMIC EVALUATION IN THE DEFINITION OF FETUSES WITH GROWTH RESTRICTION OUTCOME. To be published in ISUOG after the ICMH.


Benjamin M. Bussmann, Shrey Sharma, David Mcgregor, William Hulme and Tim Harris. **OBSERVATIONAL STUDY IN HEALTHY VOLUNTEERS TO DEFINE INTEROBSERVER RELIABILITY OF ULTRASOUND HAEMODYNAMIC MONITORING TECHNIQUES PERFORMED BY TRAINEE DOCTORS.** European Journal of Emergency Medicine 2018, Vol 00 No 00.


**2017**


Phillips RA, Smith BE, Brierley J. **THE MEASUREMENT OF STROKE VOLUME AND NOT STROKE VOLUME SURROGATES IS ESSENTIAL FOR THE IMPLEMENTATION OF GDT: IT’S ALL ABOUT THE GOALS!.** Volume 117 Issue suppl_3 December 2016 - Comment


A. Pilauckiene, A. Liubsys. EARLY ONSET SEPSIS AND SEPTIC SHOCK IN PREMATURE BABY: STABILIZATION OF HEMODYNAMICS BASED ON NON-INVASIVE ULTRASONIC CARDIAC OUTPUT MONITORING (USCOM) - CASE PRESENTATION. Recent Advances in Neonatal Medicine 2017, Wurzburg.


Lee Stoner, PhD, MPH; Mark Weatherall, PhD; Paula Skidmore, PhD; Nicholas Castro, MEd; Sally Lark, PhD; James Faulkner, PhD; Michelle A. Williams, ScD. CARDIOMETABOLIC RISK VARIABLES IN PREADOLESCENT CHILDREN: A FACTOR ANALYSIS. J Am Heart Assoc. 2017 Oct 11;6(10). pii: e007071. doi: 10.1161/JAHA.117.007071.


Paolo Tagliabue, Daniela Doni, Tiziana Fedeli. NEONATAL HEMODYNAMIC ASSESSMENT OF PHYSIOLOGY AT TERM BY USCOM METHOD. Societa Italiana di Neonatologia.


Ángel Augusto Pérez-Calatayud, Mónica Elizabeth Linarte-Basílio, Manuel Díaz de León Ponce, Raúl Carrillo Esper, Jesús Carlos Briones-Garduño. NON-INVASIVE AND MINIMALLY INVASIVE HEMODYNAMIC MONITORING IN THE SEVERE OBSTETRIC PATIENT. MONITOREO HEMODINÁMICO NO INVASIVO Y MÁ-NIMAMENTE INVASIVO EN LA PACIENTE OBSTÉTRICA GRAVE. Rev Asoc Mex Med Crit y Ter Int 2017; 31 (5).

Shahir Asraf bin Abdul Rahim, Azrina Md Ralib, Abdul Hadi Mohamad, Ariff Osman and Mohd Basri Mat Nor. AUGMENTED RENAL CLEARANCE IN CRITICALLY ILL PATIENTS WITH SEPSIS: PREVALENCE, RISK FACTORS AND OUTCOME. IMJM Volume 16 Supplementary Issue No 1.


Herbert Valensise, Grazia Maria Tiralongo, Ilaria Pisani, Daniele Farsetti, Damiano Lo Presti, Giulia Gagliardi, Ripalta Marica Basile, Gian Paolo Novelli, Barbara Vasapollo. MATERNAL
CARDIAC OUTPUT IN EARLY LABOUR: A POSSIBLE LINK WITH OBSTETRIC RISKS?.

D. Vinayagam, J Gutierrez, J Binder, E Mantovani, B. Thilaganathan, A. Khalil. IMPAIRED MATERNAL HEMODYNAMICS IN MORBIDLY OBESE WOMEN: A CASE-CONTROL STUDY.


WDN Kee, YH Tam, KS Khaw, FF Ng, SWY Lee. CLOSED-LOOP FEEDBACK COMPUTER-CONTROLLED PHENYLEPHRINE FOR MAINTENANCE OF BLOOD PRESSURE DURING SPINAL ANESTHESIA FOR CESAREAN DELIVERY: A RANDOMIZED TRIAL COMPARING AUTOMATED BOLUSES VERSUS INFUSION. Anesthesia & Analgesia 125 (1), 117-123.


2016


Álvarez-Goris MP, Martínez-Escudero IS, Díaz-Carrillo MA, Torres-Aguilar AA, Pérez-Calatayud AA, Briones-Garduño JC. IDENTIFICATION OF HEMODYNAMIC DOPPLER PATTERNS IN PREGNANT WOMEN WITH PREECLAMPSIA HISTORY. Ginecol Obstet Mex 2016; 84 (12).

J D Sluyter, A D Hughes, S A McG Thom, A Lowe, C A Camargo Jr, B Hametner, S


Raymond Mariasoosai, Denise O’Driscoll, Robert MacGinley, Alan Young. **PROSPECTIVE STUDY OF USE OF NON-INVASIVE CENTRAL BLOOD PRESSURE MEASUREMENT TO MONITOR OUTCOMES IN PATIENTS WITH SEVERE OBSTRUCTIVE SLEEP APNEA.** SDU.


Fan J, Chen ZY, Chen PY, Chen CH. **APPLICATION OF ULTRASONIC CARDIAC OUTPUT MONITOR IN EVALUATION OF CARDIAC FUNCTION IN CHILDREN WITH SEVERE PNEUMONIA.** Zhongguo Dang Dai Er Ke Za Zhi. 2016 Sep;18(9):817-820.


V. Sergeeva, N. Petrenkova, D. Strelkov, O. Yavlyanskaya, V. Krestinina. **HEMODYNAMIC PATTERNS DETERMINED BY NON-INVASIVE CW-DOPPLER ULTRASOUND CARDIAC MONITORING (USCOM) IN NEONATES DURING THERAPUTIC HYPOTHERMIA.** PICCS 2016 Abstract PICC-0666.


N. Al Rahbi. **THE VALIDITY OF ULTRASOUND CARDIAC OUTPUT MONITOR (USCOM) MEASUREMENTS IN CLINICALLY STABLE AND UNSTABLE PEDIATRIC PATIENTS.** PICCS 2016 Abstract PICC-0591.

S. Ranjit, R. Natraj, S. Kandath. **EARLY NOREPINEPHRINE CAN REVERSE SHOCK AND LIMIT POSITIVE FLUID BALANCE IN PEDIATRIC SEPTIC SHOCK.** WFPICCS 2016 Abstract PICC-0582.


D Vinayagam, Juan Gutierrez, J Binder, B Thilaganthan, A Khalil. **DOES MATERNAL OBESITY
HAVE AN ADVERSE EFFECT ON HAEMODYNAMICS?. Second International Congress on Maternal Haemodynamics, Rome.


Chutima Thongnual, Sumalee Hantragool & Rujipat Samransamruatkit. Efficacy of non-invasive cardiac monitoring (ultrasonic cardiac output monitor) guide in management of fluid refractory pediatric septic shock. Thai Paediatric Respiratory and Critical Care Society Annual Scientific Meeting.

Saikia, Bedangshu; Derrick, Graham; Fordham, Tony; Brierley, Joe. VALIDATION OF USCOM BP+ IN CHILDREN AND ADOLESCENT: A PRELIMINARY OBSERVATION. Critical Care Medicine: December 2015 - Volume 43 - Issue 12 - p 30-31 doi: 10.1097/01.ccm.0000473945.15805.ee.


2015


Sophie Bowe, Basky Thilaganathan, Elena Mantovani, Asma Khalil. INOTROPY INDEX AND RATIO OF POTENTIAL TO KINETIC ENERGY: TWO NOVEL PARAMETERS DERIVED FROM CONTINUOUS-WAVE DOPPLER ULTRASOUND. ISSHP European Congress.

Grazia Maria Tiralongo, Ilaria Pisani, Giulia Gagliardi, Damiano Lo Presti, Roberta Licia Scala, Barbara Vasapollo, Gianpaolo Novelli, Angela Andreoli, Herbert Valensise. SCREENING FOR PREECLAMPSIA IN THE FIRST TRIMESTER: A REDUCED FAT MASS INCREASES THE RISK IN NORMO BMI PATIENTS. ISSHP European Congress.


Sophie Bowe, Basky Thilaganathan, Dimuthu Vinayagam, Asma Khalil. MATERNAL CARDIOVASCULAR CHANGES IN PREGNANCIES COMPlicated BY SMALL FOR
GESTATIONAL AGE NEONATE WITH OR WITHOUT MATERNAL HYPERTENSION. ISSHP European Congress.


Sergeeva V., Strelkov D., Krestinina V., Pachomov D. HEMODYNAMIC PATTERNS DETERMINED BY NON-INVASIVE ULTRASOUND CARDIAC OUTPUT MONITORING IN PRETERM NEONATES WITH RESPIRATORY DISTRESS SYNDROME. ESPNIC.


Wendy H. Wong DO, Justin Hotz RT, Robinder G. Khemani MD, Christopher J. Newth MD. TRANSPULMONARY PRESSURE AND PRESSURE. RATE PRODUCT TO GUIDE VENTILATOR MANAGEMENT IN CHILDREN. The American Thoracic Society International Conference.


Karmen Krol, MD; John Murdoch MD; Michael McMullen MD. MEASUREMENT OF CARDIAC OUTPUT WITH THE ULTRASOUND CARDIAC OUTPUT MONITOR VERSUS...
TRANSTHORACIC ECHOCARDIOGRAPHY: THE FINAL UPDATE. Queen's University 36th Annual Anesthesiology Research Day, Ontario, CANADA.


Helen Turnham, MBChB (HONS) FRCA, Joe Brierley, MBChB, FRCPCH. NEW METHODS OF MONITORING SHOCK IN CHILDREN. Current Treatment Options in Pediatrics (2015) 1:15-24 DOI 10.1007/s40746-014-0009-x.


2014

CHEN Jun,ZHAO Shao-dong,LJ Jun,GE Xu-hua,WANG Xiao-rong,MIAO Hong-jun,JIANG Tao,YU


Sara Diab, Kimble Dunster, David Platts and John F Fraser. CONTINUOUS THERMODILUTION CARDIAC OUTPUT MONITORING IS INACCURATE DURING VENO-VENOUS ECMO IN AN OVINE MODEL. ELSO 2014.


ZHANG Weiqiang, LI Yuzhu, WANG Xiaozhi, JIANG Haiming, WANG Huijuan. GUIDING ROLE OF USCOM IN FLUID MANAGEMENT OF ARDS PATIENTS INDUCED BY PULMONARY


Chun Kuen Tai, Stewart SW Chan, Nandini Agarwal, Mandy M Tse, Cangel PY Chan, Yan-Ling Li, Colin A Graham, Timothy H Rainer. FEASIBILITY OF ASSESSING AND MANAGING HEMODYNAMIC DERANGEMENTS IN EMERGENCY DEPARTMENT PATIENTS WITH HYPERTENSION. ICEM Hong Kong.

Nga-man Cheng, Lok-lam Mak, Weiwei Zeng, Junrong Mo, Li Huang, Stewart Chan, Colin A Graham, Brian Tomlinson, Timothy H Rainer. HAEMODYNAMIC CHANGES MEASURED USING NON-INVASIVE TRANSCUTANEOUS DOPPLER ULTRASOUND IN PATIENTS WITH UNCONTROLLED ESSENTIAL HYPERTENSION AFTER BISOPROLOL TREATMENT: A PROSPECTIVE OBSERVATIONAL FEASIBILITY STUDY. ICEM Hong Kong.


Timothy Rainer, Yan-ling Li, Cangel Chan, Stewart Chan, Pei-yi Lin, Xiao-hui Chen, Brendan Smith, Colin Graham. EVALUATING THE ROLE OF USCOM FOR ASSESSING SHOCK IN ADULT PATIENTS PRESENTING TO THE EMERGENCY DEPARTMENT. DOI: http://dx.doi.org/10.1016/j.resuscitation.2014.03.283.


??1 ???. THE INFLUENCE OF GLONOIN TO THE SYSTEMIC VASCULAR RESISTANCE IN PATIENTS WITH CARDIOPULMONARY BYPASS (CBP) SURGERY. Rare and Uncommon Diseases in April 2014 Volume 21, No. 2 Total No. 103 doi: 10.3969/j. i Ssn. 1 009-3257.2 014.02.04.


Oscar A. Ingaramo, MD; Thienkim Ngo, MD; Robinder G. Khemani, MD, MsCI; Christopher J. L. Newth, MD, FRCP. IMPACT OF POSITIVE END-EXPIRATORY PRESSURE ON CARDIAC INDEX MEASURED BY ULTRASOUND CARDIAC OUTPUT MONITOR. Pediatric Crit Care Med 2014; 15:15-20.


2013

Razavi, Asma; Beltramo, Fernando; Newth, Christopher. ASSESSMENT BY PHYSICIANS OF CARDIAC OUTPUT AND SYSTEMIC VASCULAR RESISTANCE COMPARED TO USCOM. Critical Care Medicine. 41(12):A77-A78, December 2013.


Lo Presti D., Gagliardi G., Tiralongo GM., Pisani I., Scala RL., Vasapollo B., Valensise H. RESISTENZE VASCOLARI TOTALI MATERNE, NUOVO PARAMENTRO DA UTILIZZARE PER SEGUIRE LA GRavidANZA (MATERNAL TOTAL VASCULAR RESISTANCE, A NEW PARAMETER TO BE USED TO FOLLOW PREGNANCY). AIPE.

Tiralongo GM., Lo Presti D., Pisani I., Gagliardi G., Scala RL., Novelli GP., Vasapollo B., Andreoli A., Valensise H. IMPEDENZIOMETRIA E RESISTENZA VASCOLARI TOTALI MATERNE NELLA FASE INIZIALE DI GRavidANZA. UNA CHIAVE PER LA PREVENZIONE DELLA PREECLAMPSIA (IMPEDANCE AND TOTAL VASCULAR RESISTANCE IN EARLY PREGNANCY. A KEY TO THE PREVENTION OF PRE ECLAMPSIA). AIPE.


E. Mantovani, B. Thilaganathan, G. Pagani, A. Bhide, A. Khalil. INOTROPY INDEX AND RATIO OF POTENTIAL TO KINETIC ENERGY: TWO NOVEL PARAMETERS DERIVED FROM CONTINUOUS-WAVE DOPPLER ULTRASOUND. Ultrasound in Obstetrics & Gynecology 2013;
42 (Suppl. 1): 48-112. OP15.04.


Lester Critchley, Li Huang. **CARDIAC OUTPUT CHANGES DURING ROBOTIC LAPAROSCOPIC SURGERY.** Acta Anaesthesiologica Scandinavica, 57 (Suppl. 120), 4-37.


Zha Jian-hua, Chen Li-bo. **DOPPLER CONTINUOUS NONINVASIVE HEMODYNAMIC MONITORING INSTRUMENT IN TERMS OF CARDIAC OUTPUT MONITORING PATIENTS.** Chinese health and nutrition (in Xunkan) in May 2013.

Stewart Siu-Wa Chan, Nandini Agarwal, Mandy Man Tse, Cangel Pui-Yee Chan, Yan-Ling Li, Collin A Graham, Timothy H Rainer. **FEASIBILITY OF ASSESSING AND MANAGING HAEMODYNAMIC DERANGEMENTS IN PATIENTS WITH STAGE 2 HYPERTENSION PRESENTING TO AN EMERGENCY DEPARTMENT.** Hong Kong - Shenzhen Emergency Medicine Conference 2013 Scientific Program.


Ho, Grace Y.L. BMedSc; Cattermole, Giles N. BM, BCh, FCEM; Chan, Stewart S.W. MBBS, FHkCem; Smith, Brendan E. MB, ChB, FFA, RCS; Graham, Colin A. MD, FCEM; Rainer, Timothy H. MD, FCEM. **NONINVASIVE TRANSCUTANEOUS DOPPLER ULTRASOUND-DERIVED HEMODYNAMIC REFERENCE RANGES IN CHINESE ADOLESCENTS.** Pediatr Crit Care Med. 2013 Jun;14(5):e225-32. doi: 10.1097/PCC.0b013e31827727f8.

Gutierrez, Efren; Kennedy, Curtis; Kennedy-Nasser, Alana; Musick, Matthew; Williams, Eric. **INDUCTION FOR PEDIATRIC BONE MARROW TRANSPLANT ALTERS ULTRASOUND-DERIVED CARDIAC PERFORMANCE INDICES.** Critical Care Medicine. 40(12):1-17, December 2012. DOI: 10.1097/01.ccm.0000424490.56166.ec.

Phillips, Robert; West, Malcolm; Wang, Chun-Ting; Brierley, Joe; Burstow, Darryl; Fraser, John. **ACCURATE, NONINVASIVE, TRANSCUTANEOUS DOPPLER (USCOM) MEASUREMENTS OF CARDIAC OUTPUT AND VASCULAR RESISTANCE MAY IMPROVE GUIDANCE OF ANTIHYPERTENSIVE THERAPY.** Critical Care Medicine. 40(12):1-17, DOI: 10.1097/01.ccm.0000425488.28614.1f.
Smith, Brendan; Phillips, Robert; Madigan, Veronica; West, Malcolm. **DECREASED MORTALITY, MORBIDITY AND EMERGENCY TRANSPORT IN SEPTIC SHOCK; A NEW PROTOCOL BASED ON ADVANCED NONINVASIVE HAEMODYNAMICS AND EARLY ANTIBIOTICS.** Critical Care Medicine. 40(12):1-17,DOI: 10.1097/01.ccm.0000425236.44389.af.


Chan, SSW; Cattermole, GN; Leung, MPY; Ho, GYL; Graham, CA; Rainer, TH. **CHILDREN’S DISCOMFORT DURING NONINVASIVE CARDIAC OUTPUT MONITORING BY SUPRASTERNAL ULTRASONOGRAPHIC TRANSDUCER.** Hong Kong Journal of Emergency Medicine, Vol. 20, No. 1, Jan 2013: [3]-8.

Stephen Woodford. **DEFINING LIFESPAN CHANGE IN THE CIRCULATION: CW DOPPLER MEASUREMENT FROM BIRTH TO DEATH.** Crit Care Med 2013 â€¢ Volume 41 â€¢ Number 12 (Suppl.).

**2012**


Rainer TH, Chan SS, Tse MM, Chan CP, Graham CA. **CARDIOVASCULAR INDICES MEASURED BY A NONINVASIVE DOPPLER ULTRASONOGRAPHY CARDIAC OUTPUT MONITOR IN PATIENTS WITH STAGE 2 HYPERTENSION.** Annals of Emergency Medicine 2012;60:S141.


Phillips RA, Smith BE, West MJ, Rainer T, Brierley J, Harris T, He S, Burstow DJ, Fraser J. NEW NONINVASIVE, HAEMODYNAMIC NOMOGRAMS TO SIMPLIFY HYPERTENSIVE MANAGEMENT IN NEONATES, CHILDREN AND ADULTS. J Hypertension 2012;30(suppl 1):538.


Scala RL, Tiralongo GM, Pisani I, Gagliardi G, Lo Presti D, Valensise H. TOTAL VASCULAR RESISTANCES IN EARLY PREGNANCY: A KEY TO UNDERSTAND MATERNAL FACTORS INDUCING SPONTANEOUS ABORTION. Poster at ISSHP 2012.


Lester AH Critchley, Huang Li. REPEATABILITY OF SUPRA-STERNAL DOPPLER MEASUREMENTS AND THEIR RELATIONSHIP TO THE CATERMOLE SCORE FOR ASSESSING QUALITY OF USCOM SIGNALS IN ANAESTHETIZED PATIENTS. EBPOM 2012.


Udy A, Altukroni M, Jarrett P, Roberts J, Lipman J. A COMPARISON OF PULSE CONTOUR


Tai CK, Chan SS, Chan CPY, Graham CA, Rainer TH. SUITABILITY OF ANTIHYPERTENSIVE AGENTS IN ED PATIENTS WITH POORLY CONTROLLED HYPERTENSION WHEN EVALUATED AGAINST THE PRIMARY HAEMODYNAMIC ABNORMALITY. Delegate Programme 2012:58.

Tai CK, Chan SS, Graham CA, Chan CPY, Rainer TH. USE OF NON-INVASIVE DOPPLER ULTRASOUND TO DETERMINE HAEMODYNAMIC DERANGEMENTS IN EMERGENCY DEPARTMENT PATIENTS WITH POORLY CONTROLLED (STAGE 2) HYPERTENSION. ICEM poster titles and author list PP21229.


Hu Ai-zhen, Liang Jiang-jiu. THE APPLICATION OF NON-INVASIVE HEMODYNAMIC MONITORING IN PATIENTS WITH HEART FAILURE. Shandong University.


Gil L, Sanchez de Toledo J, Sabate A, Pujol M, Rossich R, Gran F, Abella RF, Balcells J. VALIDATION OF A NON-INVASIVE TECHNIQUE FOR THE MEASUREMENT OF CARDIAC
OUTPUT IN PATIENTS WITH LEFT VENTRICULAR ASSIST DEVICE - (VALIDACION DE UNA TECNICA NO INVASIVA DE MEDICION DEL GASTO CARDIACO EN PACIENTES EN ASISTENCIA UNIVENTRICULAR IZQUIERDA). SECIP 2012.


2011

Matthew Musick, Eric Williams. TEMPORAL MEASUREMENT OF DOPPLER ULTRASOUND DERIVED CARDIAC PERFORMANCE INDICES IN INFANTS AND CHILDREN PRESENTING WITH SEPSIS AND SEPTIC SHOCK. Crit Care Med 2011 Vol. 39, No. 12 (Suppl.).


Choong, Karen; Gilleland, Jonathan; Zorko, David; Agar, Barbara; Pullenayegum, Eleanor. USE OF THE NON-INVASIVE DOPPLER ULTRASOUND CARDIAC OUTPUT MONITOR (USCOM) AS AN ADJUNCTIVE ASSESSMENT TOOL FOR THE PEDIATRIC CRITICAL CARE RESPONSE TEAM. CCCF Program. Page 28.


Kate E Drummond, Edward Murphy. MINIMALLY INVASIVE CARDIAC OUTPUT MONITORS. Continuing Education in Anaesthesia, Critical Care & Pain | Volume 12 Number 1 2012. doi:10.1093/bjaceaccp/mkr044.


Leanne M. Altken, RN, PhD, FRCNA; Ged Williams, RN, MHA; Maureen Harvey, RN, MPH;Stijn Blot, RN, Cc, RN, MNSc, PhD; Ruth Kleinpell, RN, PhD; Sonia Labeau, RN, MNSc;Andrea Marshall, RN, PhD; Gillian Ray-Barruel, RN, Grad Cert ICU Nursing, BA (Hons);Patricia A. Moloney-Harmon, RN, MS, CCNS, FAAN; Wayne Robson, RN, MSc;Alexander P. Johnson, RN, MSN, ACNP-BC, CCNS, CCRN; Pang Nguk Lan, RN, MSc; Tom Ahrens, RN, DNS, FAAN. NURSING CONSIDERATIONS TO COMPLEMENT THE SURVIVING SEPSIS CAMPAIGN

Vorwerk, Christiane. NON-INVASIVE CARDIO-HAEMODYNAMIC ASSESSMENT IN ADULT EMERGENCY DEPARTMENT PATIENTS WITH SEPSIS. Leicester Research Archive, College of Medicine, Biological Sciences and Psychology, Cardiovascular Sciences, Department of Theses, Dept. of Cardiovascular Sciences.


Giles N. Cattermole, BM, Colin A. Graham, MD, Timothy H. Rainer, MD. AUTHOR'S REPLY: REFERENCE VALUES FOR NONINVASIVE CARDIAC OUTPUT MONITORING IN CHILDREN.
Joe Brierley. **LEVOSIMENDAN IN SEVERE REFRACTORY RIGHT HEART FAILURE IN INFANTS.** Crit Care Med 2010 Vol. 38, No. 12 (Suppl.).

Akash Deep. **EVOLUTION OF HEMODYNAMICS IN COMMUNITY ACQUIRED AND HOSPITAL ACQUIRED PEDIATRIC SEPSIS.** Crit Care Med 2010 Vol. 38, No. 12 (Suppl.).

Samuel Akech. **HAEMODYNAMIC STATUS AND MANAGEMENT OF SHOCK IN CHILDREN WITH SEVERE FEBRILE ILLNESS.** Oxford University Research Archive.

2010


Christian D McClung; Anthony Peduto; Scott T Youngquist; Mohammed A Hanif; Ekaterina Tzvetkova; Atman P Shah; John P Rosborough; James T Niemann. **ULTRASOUND ESTIMATION OF CARDIAC OUTPUT IN A SWINE MODEL OF CARDIAC ARREST: IMPLICATIONS FOR ASSESSING POST CARDIAC ARREST SYNDROME.** Circulation.2010;122:A18.


Giles N. Cattermole, P. Y. Mia Leung, Paulina S. K. Mak, Stewart S. W. Chan, Colin A. Graham,

Dr. David Sturgess, Dr. Brian Haluska, Dr. Mark Jones, Prof. Bala Venkatesh. NON-INVASIVE RODENT CARDIAC OUTPUT: COMPARISON OF A COMPACT CLINICAL MONITOR WITH ECHOCARDIOGRAPHY. www.webmedcentral.com/article_view/759.


Neil Patel, Melissa Dodsworth and John F Mills. CARDIAC OUTPUT MEASUREMENT IN NEWBORN INFANTS USING THE ULTRASONIC CARDIAC OUTPUT MONITOR: AN ASSESSMENT OF AGREEMENT WITH CONVENTIONAL ECHOCARDIOGRAPHY, REPEATABILITY AND NEW USER EXPERIENCE. Arch Dis Child Fetal Neonatal Ed published online doi: 10.1136/adc.2009.170704.


Knobloch K. LETTER TO THE EDITOR: NON-INVASIVE HEMODYNAMIC MONITORING IN BURN SHOCK RESUSCITATION. Burns 2010;36:1135-6.


Sophie Yacoub, MRCP; Hans-Joerg Lang, MRCPCH; Mohammed Shebbe, HNDPaeds; Molline Timbwa, HNDPaeds; Eric Ohuma, MSC; Robert Tulloh, DM; Kathryn Maitland, PhD. **CARDIAC FUNCTION AND HEMODYNAMICS IN KENYAN CHILDREN WITH SEVERE MALARIA.** Crit Care Med. 2010 Mar;38(3):940-5.


### 2009

GENG Rong, HAN Ying. **EFFECT OF NASAL CONTINUOUS POSITIVE AIRWAY PRESSURE ON CARDIAC FUNCTION IN CHILDREN WITH PNEUMONIA COMPlicated WITH HEART FAILURE.** Journal of Applied Clinical Pediatrics;2009-19.


Saur J, Trinkmann F, Weissmann J, Borggrefe M, Kaden JJ. **NON-INVASIVE DETERMINATION...**


Marino Festa, Krista Mos, Stephanie Fijten, Andrew Cole, David Winlaw. EFFECT OF CHANGES IN VENTILATION ON ARTERIAL CARBON DIOXIDE LEVELS AND CEREBRAL AND SOMATIC TISSUE OXYGENATION IN INFANTS FOLLOWING CARDIOPULMONARY BYPASS AND CARDIAC SURGERY. PCCS 2009.


Giles Cattermole, Mia Leung, Paulina Mak, Colin Graham, Timothy Rainer. CHILDREN’S DISCOMFORT DURING ULTRASOUND CARDIAC OUTPUT MONITOR (USCOM) IS SIMILAR TO THAT DURING BLOOD PRESSURE MEASUREMENT. ACEM 2009. South Korea.

Mia Leung, Giles Cattermole, Paulina Mak, Colin Graham, Timothy Rainer. COMPARISON OF NORMAL RANGES OF CARDIOVASCULAR INDICES FOR CHINESE AND AUSTRALIAN CHILDREN DERIVED USING THE ULTRASOUND CARDIAC OUTPUT MONITOR (USCOM). ACEM 2009, South Korea.


Karsten Knobloch. MD. IMMEDIATE HEMODYNAMIC CHANGES FOLLOWING BETABLOCKADE IN PRECLINICAL THORACIC PAIN - ULTRASONIC CARDIAC OUTPUT
MONITORING (USCOM) IN HEMS. CCTMC 2009.


Tanya L Jones FRCA; Roshan Fernando FRCA; McDonald Sarah FRCA; Stewart Adrienne FRCA; McKelvey Alistair MRCOG; Columb Malachy FRCA. SERIAL MEASUREMENTS OF NEONATAL CARDIAC OUTPUT FOLLOWING CAESAREAN SECTION USING DOPPLER ULTRASOUND - ESTABLISHING REFERENCE RANGES. The Society for Obstetric Anesthesia and Perinatology (SOAP).


D Sturgess; R Pascoe; G Scalia; B Venkatesh . B-TYPE NATRIURETIC PEPTIDE, CORRECTED FLOW TIME AND CENTRAL VENOUS PRESSURE AS PREDICTORS OF FLUID RESPONSIVENESS IN SEPTIC SHOCK. ISICEM 2009.


Gutierrez, MD; Mark Hall, MD; Yong Y. Han, MD; James Hanson, MD; Jan Hazelzet, MD; Lynn Hernan, MD; Jane Kiff, MD; Niranjan Kissoon, MD; Alexander Kon, MD; Jose Irazusta, MD; John Lin, MD; Angie Lorts, MD; Michelle Mariscalco, MD; Renuka Mehta, MD; Simon Nadel, MD; Trung Nguyen, MD; Carol Nicholson, MD; Mark Peters, MD; Regina Okhuysen-Cawley, MD; Tom Poulton, MD; Monica Relves, MD; Agustin Rodriguez, MD; Ranna Rozenfeld, MD; Eduardo Schnitzler, MD; Tom Shanley, MD; Sara Skache, MD; Peter Skippen, MD; Adalberto Torres, MD; Bettina von Dessauer, MD; Jacki Weingarten, MD; Timothy Yeh, MD; Arno Zaritsky, MD; Bonnie Stojadinovic, MD; Jerry Zimmerman, MD; Aaron Zuckerberg, MD.


2008


Jacqui Jauncey-Cooke, Caroline Grant, Trang Pham, Kelly Foster, Judy Hough, Andreas Schibler. PICU, Mater Children's Hospital, Brisbane, Queensland. Lung de-recruitment and re-recruitment after suction of the endotracheal tube in ventilated children. European Respiratory Society (ERS), Berlin Oct, 2008.

Jacqui Jauncey-Cooke, Trang Pham, Kelly Foster, Caroline Grant, Judy Hough, Andreas Schibler. Oxygenation does not correlate with end expiratory lung volume post lung recruitment. APCC Congress Guide, Page 130, poster #130.

Jai Woog Ko, M.D., Sang Weon Chung, M.D., Yo Seob Park, M.D., Kyo Joon Lee, M.D.*., Dong Seok Moon, M.D.* and In Byung Kim, M.D. Departments of Emergency Medicine, *Chest Surgery, Kwandong University College of Medicine, Goyang, Korea. Variations in pulse oximetry plethysmographic waveform amplitude and hemodynamic assessment induced by passive leg raising in spontaneously breathing adult volunteers. APCC Congress Guide Page 132, poster #130 .


Mudit Mathur, MD, Stephanie Collazo, RN and Maria Stadtlr, RN. Goal directed hemodynamic management in organ donors after brain-death improves organs transplanted per donor. Chest Meeting Abstracts 134: s21003.

Brendan E Smith, Veronica M Madigan. RAPID BEDSIDE DETERMINATION OF INOTROPY IN ACUTE PATIENTS. Anaesthesia and Intensive Care Vol 36, No 4, p 608.

Stephanie Collazo, RN, CNS, CCRN, CPTC, Maria Stadtlter, RN, CPTC, CETC, TPMC, OneLegacy, Los Angeles, CA and Mudit Mathur, MD, Loma Linda University Children's Hospital, Loma Linda, CA. USE OF ULTRASOUND CARDIAC OUTPUT MONITOR (USCOM), T4 INFUSION AND GOAL DIRECTED DONOR HEMODYNAMIC MANAGEMENT IMPROVE ORGANS TRANSPLANTED PER DONOR. Annual NATCO Meeting, August, 2008.


Brendan E Smith, Veronica M Madigan. INOTROPES IN SEPTIC SHOCK - A QUESTION OF BALANCE. Anaesthesia and Intensive Care Vol 36, No 4, p 608-609.

Gail M. Stewart, DO, H. Bryant Nguyen, MD, MS, Tommy Y. Kim, MD, Joshua Jauregui, BS, Sean R. Hayes, BS, and Stephen Corbett, MD, PhD. INTER-RATER RELIABILITY FOR NONINVASIVE MEASUREMENT OF CARDIAC FUNCTION IN CHILDREN. Pediatric Emergency Care, Volume 24, Number 7, July 2008.

Brendan E Smith. RAPID NON-INVASIVE DETERMINATION OF VENTRICULAR PRELOAD. Anaesthesia and Intensive Care Vol 36, No 4, p 609.


Andre M. De Wolf. PULMONARY ARTERY CATHETER: REST IN PEACE? NOT QUITE YET.... Liver Transplantation, Volume 14 Issue 7, Pages 917 - 918.

Saurabh J, Vafa A, Marguilies D R. **SWAN-GANZ CATHETER VS NON-INVASIVE DOPPLER ULTRASONOGRAPHY: IS THERE STILL A PLACE FOR PULMONARY ARTERY CATHETER IN THE ICU PRACTICE?**. South Western Surgical Congress, Acapulco, Mexico, 1st April; Oral presentation.


Dr David J. Sturgess, Mr Brian A Haluska, Dr Mark Jones, Professor Bala Venkatesh. **NON-INVASIVE RODENT CARDIAC OUTPUT: COMPARISON OF A COMPACT CLINICAL MONITOR WITH ECHOCARDIOGRAPHY AND PROPOSAL OF A SIMPLE CORRECTION FACTOR**. Critical Care 2008, 12 (Suppl 2): P84.


Timothy Thiruchelvam; Joe Brierley; Mark Peters; Andrew Taylor. **ASSESSMENT OF A NON-INVASIVE PAEDIATRIC CARDIAC OUTPUT (CO) MONITOR**. Crit Care Med 2007 Vol. 35, No. 12 (Suppl) # 294.

Knirsch W., Kretschmar O., Tomaske M., Stutz, K., Nagdyman N., Balmer C., Schmitz A., Béttex D., Berger F., Baurersfeld U., Weiss M. **CARDIAC OUTPUT MEASUREMENT IN CHILDREN: COMPARISON OF THE ULTRASOUND CARDIAC OUTPUT MONITOR WITH**

Brendan E Smith; Veronica M Madigan School of Biomedical Science, Charles Sturt University, Bathurst, NSW, Australia. RAPID NON-INVASIVE BEDSIDE DETERMINATION OF INOTROPY - A FEASIBILITY STUDY. Crit Care Med 2007 Vol. 35, No. 12 (Suppl) # 299.


Ramirez C. BA, RRT. RESPIRATORY THERAPISTS UTILIZE ULTRASOUND TO MAKE DECISIONS ON OXYGENATION DELIVERY. AARC Times, Vol 32, Issue 1, Jan 2008.

2007


Knobloch K. NO DIFFERENCE IN THE HEMODYNAMIC RESPONSE TO NORDIC POLE WALKING VS. CONVENTIONAL BRISK WALKING - A RANDOMIZED EXERCISE FIELD TEST USING THE ULTRASONIC CARDIAC OUTPUT MONITOR (USCOM). Int J Cardiol 2007 [in press].


Lichtenthal P, Sloniger J, Copeland J. USCOM CARDIAC OUTPUT-ACCURACY IN INFANTS
Phillips RA. **CARDIAC OUTPUT.** wikipedia.org/wiki/Cardiac_output.

Phillips RA. **HEMODYNAMICS.** wikipedia.org.


Ahrens T. **THE USE OF TECHNOLOGY TO THE BETTERMENT OF PATIENT OUTCOME.** ANZICS/ACCCN 2007, Conference booklet, page 60.


Brendan Smith & V M Madigan. School of Biomedical Sciences Charles Sturt University, Bathurst, Australia. MEASUREMENT OF INOTROPY STATUS IN EMERGENCY DEPARTMENT PATIENTS. Scientific Symposium of Emergency Medicine, Hong Kong. 17-18 October 2007.


Knobloch K. HEMODYNAMIC MONITORING IN HEMS AND EMS. Air Medical Transport Conference, 2007, Tampa, FL, USA.


Dheeraj Arora, DNB, PDCC; Rajesh Chand MD, PDCC; Yatin Mehta MD, DNB, FRCA FAMS, and Naresh Trehan MD. CARDIAC OUTPUT ESTIMATION AFTER OFF-PUMP CORONARY ARTERY BYPASS: A COMPARISON OF TWO DIFFERENT TECHNIQUES. Annals of Cardiac


Xiaohong Liu, Zhenzhu Yu, Yin Lin, Jinxing Feng, YanXia He, Chengrong Li. MONITORING THE HEMODYNAMICS IN NEONATES BY A ULTRASONIC CARDIAC OUTPUT MONITOR: PRELIMINARY EXPERIENCE. Pediatric Critical Care Med 2007 Vol. 8, No. 3 (supp) P18.2.316.

BA Scansen, JD Bonagura, KE Schober, WW Muir. CARDIAC OUTPUT DETERMINATION IN THE CAT USING THE USCOM NON INVASIVE CARDIAC OUTPUT SYSTEM. American College of Veterinary Internal Medicine, Seattle, June 2007.

BA Scansen, JD Bonagura, KE Schober, WW Muir. CARDIAC OUTPUT DETERMINATION IN THE DOG USING THE USCOM NONINVASIVE CARDIAC OUTPUT SYSTEM. American College of Veterinary Internal Medicine, Seattle, June 2007.


Knobloch K. NON-INVASIVE DETERMINATION OF CARDIAC OUTPUT BY USCOM. APPLICATIONS IN THE ICU AND IN HEMS. Critical Care Transport Medicine Conference, San Antonio, TX, USA.

J H Eguchi, MD, M Mathur, MD, R Larsen, MD, A De-Amaya, BSN, L L Bailey, MD, R Chinnock, MD and S A Abd-Allah, MD. ULTRASOUND CARDIAC OUTPUT MONITOR MEASUREMENTS IN PEDIATRIC CARDIAC TRANSPLANT PATIENTS. The Journal of Heart and Lung Transplantation, Volume 26, Issue 2, Page S136.


Knobloch K, Tepe J, Lichtinghagen R, Luck HJ, Vogt PM. MONITORING OF CARDIOTOXICITY


Joe Brierley, Mark Peters. HEMODYNAMICS OF MILRINONE LOADING IN CRITICALLY ILL CHILDREN. Critical Care Medicine. 34(12):A63, December 2006.

Joe Brierley, Matt Richardson, Mark Peters. EFFECTS OF INITIATION OF CONTINUOUS RENAL REPLACEMENT THERAPY ON HEMODYNAMICS IN CRITICALLY ILL CHILDREN. Critical Care Medicine. 34(12):A63, December 2006.

Knobloch K, Lupkemann M. CHAPTER TITLE: MOTORRADUNFALL (SEVERE MOTORBIKE ACCIDENT). CASE STUDIES IN EMERGENCY MEDICINE.


Chung Wah Siu, MS, Hung-Fat Tse, MD, FRCP, Kathy Lee, MD, Yui-Ming Lam, MRCP, Hon-Wah Chan, MD, FRCP, Cindy Yung, RN and Chu-Pak Lau, MD, FRCP. The University of Hong
Kong, Hong Kong, Hong Kong Special Administrative Region of China. A RAPID ULTRASONIC CARDIAC OUTPUT MONITOR METHOD FOR OPTIMIZATION OF VENTRICULO-VENTRICULAR INTERVAL (VVI) IN CARDIAC RESYNCHRONIZATION THERAPY. Pacing and Clinical Electrophysiology 2007 Vol 30 Issue 1 Pages 50-55 Cardiac Resynchronization Therapy Optimization by Ultrasonic Cardiac Output Monitoring (USCOM) Device.


2006


Tan HL. EVALUATION OF CARDIAC OUTPUT MONITORING DEVICES: CLARITY OR CONFUSION?. Critical Care and Resuscitation, Volume 8, Number 4.


P.M. Middleton & R. Carroll, Emergency Department, Prince of Wales Hospital, Randwick, Australia. DOPPLER ULTRASOUND CARDIAC OUTPUT IN EMERGENCY DEPARTMENT SEPSIS SYNDROME. 23rd annual scientific meeting of the Australasian College for Emergency Medicine, Sydney NSW, 19 - 24 November, 2006.

Karsten Knobloch, Julia Tepe, Ralf Lichtinghagen, Hans-Joachim Lück, Marcus Spies, Peter M. Vogt. DIFFERENTIAL HEMODYNAMIC RESPONSE USING CONTINUOUS WAVE DOPPLER DEPENDING ON N-Terminal-Pro Brain Natriuretic Peptide (NT-Pro-BNP) DURING IMMUNOTHERAPY WITH TRASTUZUMAB VS. PACLITAXEL FOR METASTATIC BREAST CANCER. German National Congress For Plastic and Reconstructive Surgery, November 2006.


Tam MK, Rainer TH. PROGNOSTIC VALUE OF NON-INVASIVE CARDIAC INDEX MEASUREMENT IN THE EMERGENCY DEPARTMENT USING PORTABLE CONTINUOUS


Smith BE, Madigan VM. OPTIMISING HAEMODYNAMICS IN THE SHOCKED CHILD - THE DANGERS OF APPLYING ADULT PARAMETERS TO CHILDREN. Hong Kong Journal of Emergency Medicine, Oct 2006, Vol 13 (4- 25).


Brierley, J., Thiruchelvam, T., Peters, M. HIGH FREQUENCY OSCILLATORY VENTILATION DOES NOT IMPAIR CARDIAC OUTPUT IN INFANTS WITH ISOLATED RESPIRATORY FAILURE. Europaeiatrics, Barcelona, Spain - October, 2006.


Yoshifumi Kotake, MD, PhD; Takeshi Suzuki, MD, PhD; Nobuyuki Katori, MD, PhD; Ryohei Serita, MD, Phd; Junzo Takeda, MD, PhD: EVALUATION OF NONINVASIVE CARDIAC OUTPUT MONITOR WITH TRANSTHORACIC DOPPLER METHOD IN THE ICU. American Society of Anesthesiology Annual Meeting, Chicago, October 2006.

PR Lichtenthal, MD; RA Phillips, DMU; JA Sloniger, MS; JG Copeland MD. USCOM - NON INVASIVE DOPPLER: ARE CARDIAC OUTPUT MEASUREMENTS ACCURATE IN BOTH INFANTS AND ADULTS?. American Society of Anesthesiology Annual Meeting, Chicago, October 2006.


Martinez AE, Hess JC, Miller WM, Saunders A. THE MEASUREMENT OF CARDIAC OUTPUT USING A NEW TRANSCUTANEOUS DOPPLER DEVICE IN SEDATED FOALS. American College of Veterinary Anesthesiologists Chicago, IL 2006.


Phillips RA., Fraser JF, Burstow DJ, West MJ, Knobloch K. NON INVASIVE ARTERIAL PRESSURE IS A POOR SURROGATE OF CARDIAC AND VASCULAR FUNCTION IN ELITE ATHLETES AT REST AND AFTER MODERATELY INCREASED OXYGEN DEMAND. 54th Annual Scientific Meeting of the Cardiac Society of Australia & New Zealand, Canberra, August 4-7, 2006.

Nguyen HB, Losey T, Rasmussen J Oliver R, Guptill M, Wittlake WA, Corbett SW. INTERRATER RELIABILITY OF CARDIAC OUTPUT MEASUREMENTS BY TRANSCUTANEOUS DOPPLER...


2005


Heerman, William J.; Churchwell, Kevin B.; Taylor, Mary B. CLINICAL UTILITY OF CW DOPPLER ULTRASOUND FOR MEASURING CARDIAC OUTPUT. Pediatric Cardiac Intensive Care Society Symposium, Miami FA, December 10, 2005.

Phillips R. USCOM HAEMODYNAMICS: INVASIVE MYTHS AND NON-INVASIVE ALTERNATIVES. FORUM ON HAEMODYNAMIC MONITORING IN THE ER AND ICU. Chinese College of Critical Care Medicine, 14th November, Beijing, PRC.


Smith B., Parakkal A., Department of Anaesthetics and Critical Care, Broken Hill Base Hospital, NSW, Australia. RAPID EVALUATION OF HEAEMODYNAMICS IN THE CRITICALLY ILL
PATIENT BY CONTINUOUS WAVE DOPPLER ULTRASOUND MEASUREMENT OF AORTIC MINUTE DISTANCE. Hong Kong College of Emergency Medicine Scientific Session, October 2005.


Rob Phillips, Malcolm West, Darryl Burstow. HAEMODYNAMICS AND CW DOPPLER; IMPROVING A POWERFUL CLINICAL TOOL. Cardiac Society of Australia and New Zealand (CSANZ), 2005.


Phillips R. NON-INVASIVE HAEMODYNAMIC ASSESSMENT IN CRITICAL CARE; A CHANGE IN PRACTICE?. Australian Congress of Critical Care Nurses. April 2, 2005, Perth.


Phillips R. **NON-INVASIVE APPROACH TO HAEMODYNAMIC MONITORING IN THE ICU.**
Taiwan Society of Cardiovascular Anaesthesia. 5th Annual Scientific Meeting, Taichung. 5th March. Keynote address.


Knobloch K. **MOGLICHKEITEN DER PRAKLINISCHEN SONOGRAPHIE IN DER LUFTRETTUNG (POSSIBILITIES OF PRECLINICAL SONOGRAPHY IN AIR RESCUE).** ADAC-Luftrettung Medcrewbriefing am 18.2.2005, Rosenheim.


O’Driscoll, G., Wright, J J., Wright, I W., Green, D J., Phillips, R A. **CARDIAC OUTPUT MEASUREMENT WITH THE USCOM ULTRASONIC CARDIAC OUTPUT MONITOR.** 2nd Asian Pacific Congress of Heart Failure (APCHF), Singapore, January 12, 2005.


**2004**

Dr Anthony Parakkal. **ROUTINE CARDIAC OUTPUT MONITORING DURING GENERAL SURGERY - A FEASIBILITY STUDY.** National Conference of Anaesthetics in India in December 2004.


Brierley J., Paediatric Intensive Care, Great Ormond Street Hospital, London. **USCOM CARDIAC OUTPUT MONITORING ON RETRIEVAL.** European Society of Paediatric and Neonatal Intensive Care, September 2004.

Phillips R., West M., Burstow D., Wright J., Naylor L., Green D., O'Driscoll G. INCREMENTAL DOPPLER STRESS ECHOCARDIOGRAPHIC EVALUATION OF CARDIOVASCULAR RESERVE IN HEART FAILURE: A CASE COMPARISON OF 2D INDEPENDENT CW DOPPLER AND THERMODILUTION. World Congress of Echocardiography and the International Society of Cardiovascular Ultrasound, Buenos Aires, October 2003; Cardiac Society of Australia & New Zealand, Brisbane, August 9 2004.


Dr.Ram.E.Rajagopalan & Dr.Suresh Kumar. EFFICACY OF A TRANSTHORACIC DOPPLER SYSTEM TO ACCESS CARDIAC FUNCTION ON VENTILATED PATIENTS IN THE INTENSIVE CARE UNIT. 10th Annual Conference of the Indian Society of Critical Care, Mumbai, India, February 2004.


Phillips R., West M., Burstow D. A 2D INDEPENDENT, CW DOPPLER ECHOCARDIOGRAPHIC ALGORITHM FOR DETERMINATION OF TRANSPULMONARY AND TRANSAORTIC FLOW VOLUMES IN ADULTS AND CHILDREN. Asia Pacific Congress of Doppler and Echocardiography, Singapore.

2003


MECABIO Biomechanics Institute, Marseilles, France. VALUATION OF THE USCOM 1A - FLOW TEST. Uscom Internal.


Phillips RA, West MJ, Burstow DJ, Wright J, Naylor LH, Green DJ, O'Driscoll JG. INCREMENTAL DOPPLER STRESS ECHOCARDIOGRAPHIC EVALUATION OF CARDIOVASCULAR RESERVE IN HEART FAILURE: A CASE COMPARISON OF 2D INDEPENDENT CW DOPPLER AND THERMODILUTION. International Society of Cardiovascular Ultrasound, Antalya, Turkey. 9th May. World Congress of the International Society of Cardiovascular


2002


Phillips RA, Dadd MJ, Gill RW, West MJ, Burstow DJ. TRANSCUTANEOUS DOPPLER CARDIAC OUTPUT MONITORING; A FEASIBILITY, RELIABILITY AND REPRODUCIBILITY STUDY. J Am Coll Cardiol 2002:39(SupplB);283B.


2001